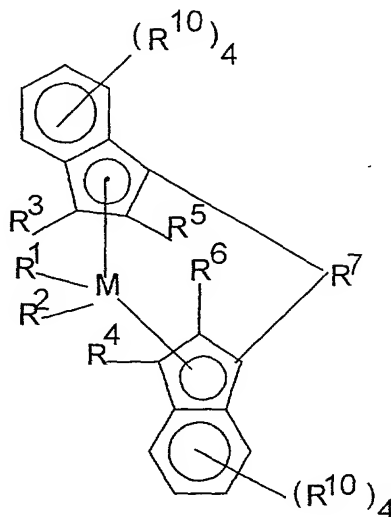


We claim:

Claim 1. A compound represented by the formula:



wherein: M is selected from the group consisting of titanium, zirconium, hafnium, vanadium, niobium, tantalum, chromium, molybdenum and tungsten;

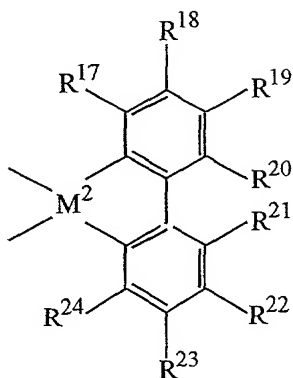
R^1 and R^2 are identical or different, and are one of a hydrogen atom, a C_1 - C_{10} alkyl group, a C_1 - C_{10} alkoxy group, a C_6 - C_{10} aryl group, a C_6 - C_{10} aryloxy group, a C_2 - C_{10} alkenyl group, a C_2 - C_4 alkenyl group, a C_7 - C_{40} arylalkyl group, a C_7 - C_{40} alkylaryl group, a C_8 - C_{40} arylalkenyl group, or a halogen atom; or R^1 and R^2 are a conjugated diene which is optionally substituted with one or more hydrocarbyl, tri(hydrocarbyl)silyl groups or hydrocarbyl, tri(hydrocarbyl)silylhydrocarbyl groups, said diene having up to 30 atoms not counting hydrogen;

R^5 and R^6 are identical or different, and are one of a hydrogen atom, a halogen atom, a C_1 - C_{10} alkyl group which may be halogenated, a C_6 - C_{10} aryl group which may be halogenated, a C_2 - C_{10} alkenyl group, a C_7 - C_{40} -arylalkyl group, a C_7 - C_{40} alkylaryl group, a C_8 - C_{40} arylalkenyl group, a $-NR_2^{15}$, $-SR^{15}$, -

OR¹⁵, -OSiR₃¹⁵ or -PR₂¹⁵ radical, wherein: R¹⁵ is one of a halogen atom, a C₁-C₁₀ alkyl group, or a C₆-C₁₀ aryl group;

R⁷ is .

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wherein: R¹⁷ to R²⁴ are as defined for R¹ and R², or two or more adjacent radicals R¹⁷ to R²⁴, including R²⁰ and R²¹, together with the atoms connecting them form one or more rings;

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M² is carbon, silicon, germanium or tin; and

the radicals R³, R⁴ and R¹⁰ are identical or different and have the meanings stated for R⁵ and R⁶, or two adjacent R¹⁰ radicals are joined together to form a ring.

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Claim 2. The compound of claim 1 wherein M² is silicon.

Claim 3. The compound of claim 1 wherein M is zirconium, titanium or hafnium.

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Claim 4. The compound of claim 1 wherein M is zirconium.

Claim 5. The compound of claim 1 wherein R⁵ and R⁶ are not hydrogen.

- Claim 6. The compound of claim 1 wherein R^{12} - R^{24} are hydrogen.
- Claim 7. A catalyst composition comprising the reaction product of the compound of claim 1 and a cocatalyst.
- 5 Claim 8. The catalyst composition of claim 7 wherein the cocatalyst comprises one or more non-coordinating anion activators.
- 10 Claim 9. The catalyst composition of claim 7 wherein the cocatalyst comprises one or more alkylalumoxane activators.
- Claim 10. The catalyst composition of claim 7 wherein the cocatalyst comprises a non-coordinating anion activator and an alkylalumoxane activator.

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